

Author index

- AGNATI, L.F., FUXE, K., BATTISTINI, N., GIARDINO, L., BENFENATI, F., MARTIRE, M. & RUGGERI, M. Further evidence for the existence of interactions between receptors for dopamine and neurotensin. Dopamine reduces the affinity and increases the number of [^3H]-neurotensin binding sites in the subcortical limbic forebrain of the rat, 125
- AGNATI, L.F., FUXE, K., ZINI, I., DAVALLI, P., CORTI, A., CALZA, L., TOFFANO, G., ZOLI, M., PICCININI, G. & GOLDSTEIN, M. Effects of lesions and ganglioside GM1 treatment on striatal polyamine levels and nigral DA neurons. A role of putrescine in the neurotropic activity of gangliosides, 499
- AGNATI, L.F. (see ANDERSON, K.)
- ÅHRÉN, B. & LUNDQUIST, I. Effects of α - and β -adrenoceptor stimulation on $^{45}\text{Ca}^{2+}$ efflux and insulin secretion from perfused rat islets, 381
- ÅKERSTRÖM, G. (see WALLFELT, C.)
- ÅLMGREN, O. (see HALLBERG, H.)
- AMTORP, O. (see ELIASSEN, P.)
- ANDERSSON, K., FUXE, K., ENEROTH, P., MASCAGNI, F. & AGNATI, L.F. Effects of acute intermittent exposure to cigarette smoke on catecholamine levels and turnover in various types of hypothalamic DA and NA nerve terminal systems as well as on the secretion of adenohipophyseal hormones and corticosterone, 277
- ANDERSSON, K.-E. (see FORMAN, A.)
- ANDERSSON, K.-E. (see HEDLUND, H.)
- ANDERSSON, K.-E. (see MAIGAARD, S.)
- APPELGREN, B. (see SAGULIN, G.-B.)
- AQUILONIUS, S.-M. (see ASKMARK, H.)
- ARNER, A., MALMQVIST, U. & UVELIUS, B. Effects of Ca^{2+} on force-velocity characteristics of normal and hypertrophic smooth muscle of the rat portal vein, 525
- ARVER, S. (see SAGULIN, G.-B.)
- ASKING, B. Sympathetic stimulation of amylase secretion during a parasympathetic background activity in the rat parotid gland, 535
- ASKMARK, H., GILLBERG, P.-G., LILJEBOG, A. & AQUILONIUS, S.-M. Autoradiographic changes of ^3H - α -bungarotoxin binding in rat hind limb muscles after a cryoinjury of the sciatic nerve and in acrylamide intoxication, 117
- ASTRUP, A., BÜLOW, J. & CHRISTENSEN, N.J. The effect of non-esterified long-chain fatty acids on blood flow and thermogenesis on brown adipose tissue in the young dog, 81
- AUS, G., FOLKOW, B. & GÖTHBERG, G. Decrease in vascular 'reactivity' to ouabain, 121
- BÁRÁNY, E.H. (see LÜTTJEN-DRECOLL, E.)
- BATTISTINI, N. (see AGNATI, L.F.)
- BENFENATI, F. (see AGNATI, L.F.)
- BENGTSOON, B., KHAN, A.R. & WEIBER, R. Role of different calcium pools in the contraction of respiratory smooth muscle, 93
- BENGTSOON, B. (see KHAN, A.R.)
- BJÖRNDÄHL, L. & KVIST, U. Loss of an intrinsic capacity for human sperm chromatin decondensation, 189
- BJÖRNDÄHL, L. (see KVIST, U.)
- BLIX, A.S. (see LARSEN, T.S.)
- BOSCO, C. Adaptive response of human skeletal muscle to simulated hypergravity condition, 507
- BRISMAR, T. & SCHWARZ, J.R. Potassium permeability in rat myelinated nerve fibres, 141
- BRODIN, E. (see THEODORSSON-NORHEIM, E.)
- BROUWER, J.N. (see HELLEKANT, G.)
- BUANES, T. (see GROTMOL, T.)
- BUDZIŃSKA, K., EULER, C. VON, KAO, F.F., PANTALEO, T. & YAMAMOTO, Y. Effects of graded focal cold block in the solitary and para-ambiguous regions of the medulla in the cat, 317
- BUDZIŃSKA, K., EULER, C. VON, KAO, F.F., PANTALEO, T. & YAMAMOTO, Y. Effects of graded focal cold block in rostral areas of the medulla, 329
- BUDZIŃSKA, K., EULER, C. VON, KAO, F.F., PANTALEO, T. & YAMAMOTO, Y. Release of expiratory muscle activity by graded focal cold block in the medulla, 341
- BÜLOW, J. (see ASTRUP, A.)
- CALZA, L. (see AGNATI, L.F.)
- CHRISTENSEN, B.L. (see THORN, N.A.)
- CHRISTENSEN, N.J. (see ASTRUP, A.)
- CORTI, A. (see AGATI, L.F.)
- DAHLBORN, K. (see OLSSON, K.)
- DAHLÖF, C. (see FRANCO-CERECEDA, A.)
- DAHLÖF, C. (see KAHAN, T.)
- DANIELSSON, I. & NORRSELL, U. Somatosensory, short latency activation in the intercollicular region of the cat's mesencephalon, 479
- DAVALLI, P. (see AGNATI, L.F.)
- DELBO, D. (see FÄNDRIS, L.)
- DIGIROLAMO, M. (see GAUSE, I.)
- EDÉN, S. (see GAUSE, I.)
- EDVINSSON, L. (see FREDHOLM, B.B.)
- EFENDIĆ, S. (see KHAN, A.)
- EICHBERG, J.W. (see HELLEKANT, G.)

- EICHHORN, M. (see LÜTTJEN-DRECOLL, E.)
 EINARSSON, S. (see UVNÄS-MOBERG, K.)
 EINTREI, C., LESZNIEWSKI, W., ÖDMAN, S. & LEWIS, D.H. Locally applied ¹³³Xenon for the measurement of regional cerebral flow (rCBF): an experimental study in the pig, 261
 EKLUND, M., HÅKANSSON, R., HEDENBRO, J., REHFELD, J.F. & SUNDLER, F. Endocrine cells and parietal cells in the stomach of the developing rat, 483
 EKLUND, M., HÅKANSSON, R., HOLMIN, T., OSCARSON, J., REHFELD, J.F., SUNDLER, F. & WESTRIN, P. Effects of portacaval shunt on the rat stomach, 437
 ELIASEN, P. & AMTORP, O. Absence of capillary recruitment during increased coronary blood flow in the working dog heart, 181
 ENEROTH, P. (see ANDERSSON, K.)
 ENGBERG, I. (see FLATMAN, J.A.)
 ERIKSSON, M. (see UVNÄS-MOBERG, K.)
 EULER, C. VON (see BUDZIŃSKA, K.)
 FÄNDRICKS, L., JÖNSSON, C. & DELBRO, D. Blockade of substance P receptors inhibits non-nicotinic, non-adrenergic colonic contractions induced by stimulation of the lumbar sympathetic nerves to the feline large intestine, 565.
 FASTH, S. (see HEDLUND, H.)
 FLATMAN, J.A., LAMBERT, J.D.C. & ENGBERG, I. The variation in action of excitatory amino acids in relation to distance of iontophoretic application to spinal motoneurons, 421
 FOLKOW, B. (see AUS, G.)
 FORMAN, A., ANDERSSON, K.-E., MAIGAARD, S. & ULMSTEN, U. Concentrations and contractile effects of substance P in the human ampullary-isthmus junction, 17
 FORMAN, A. (see MAIGAARD, S.)
 FRANCO-CEREDA, A., LUNDBERG, J.M. & DAHLÖF, C. Neuropeptide Y and sympathetic control of heart contractility and coronary vascular tone, 361
 FRANCO-CEREDA, A. (see LUNDBERG, J.M.)
 FREDHOLM, B.B., JANSEN, I. & EDVINSSON, L. Neuropeptide Y is a potent inhibitor of cyclic AMP accumulation in feline cerebral blood vessels, 467
 FREDHOLM, B.B. (see LI, Y.-O.)
 FREDHOLM, B.B. (see SCHOENBERG, M.H.)
 FUGL-MEYER, A.R., GERDLE, B. & LÄNGSTRÖM, M. Characteristics of repeated isokinetic plantar flexions in middle-aged and elderly subjects with special regard to muscular work, 213
 FUGL-MEYER, A.R. (see GERDLE, B.)
 FUXE, K. (see AGNATI, L.F.)
 FUXE, K. (see ANDERSSON, K.)
 GAUSE, I., EDÉN, S., ISAKSSON, O., DIGIROLAMO, M. & SMITH, U. Changes in growth hormone binding and metabolic effects of growth hormone in rat adipocytes following hypophysectomy, 229
 GERDLE, B. & FUGL-MEYER, A.R. Mechanical output and iEMG of isokinetic plantar flexion in 40-64-year-old subjects, 201
 GERDLE, B. (see FUGL-MEYER, A.R.)
 GIARDINO, L. (see AGNATI, L.F.)
 GILLBERG, P.-G. (see ÅSKMARK, H.)
 GLASER, D. (see HELLEKANT, G.)
 GODAL, T. (see HEIKKILÄ, R.)
 GOLDSTEIN, M. (see AGNATI, L.F.)
 GOLDSTEIN, M. (see MEISTER, B.)
 GÖRANSSON, A. & SJÖQUIST, M. The effect of a converting enzyme inhibitor on autoregulation and internal distribution of glomerular filtration in the rat, 515
 GÖTHBERG, G. (see AUS, G.)
 GROTMOL, T., BUANES, T., MATHISEN, Ø., SCHISTAD, O., SEJERSTED, O.M. & RÆDER, M.G. Effects of digitoxin and hypokalaemia on pancreatic NaHCO₃ secretion and pancreatic Na,K-ATPase activity, 71.
 GUNDERSEN, K. Early effects of denervation on isometric and isotonic contractile properties of rat skeletal muscles, 549
 GUSTAFSSON, B. (see WIGSTRÖM, H.)
 GYLFE, E. (see WALLFELT, C.)
 HAGLUND, U. (see SCHOENBERG, M.H.)
 HÅKANSSON, R. (see EKLUND, M.)
 HALLBERG, H. & ÅMLGREN, O. β -adrenoceptor agonists do not cause tremor in the conscious rat, 149
 HANSON, M. (see RIDDERSTRÅLE, Y.)
 HARALDSSON, B. & JOHANSSON, B.R. Changes in transcapillary exchange induced by perfusion fixation with glutaraldehyde, followed by measurements of capillary filtration coefficient, diffusion capacity and albumin clearance, 99
 HÅRD, A.F. SEGERSTAD, C. (see HELLEKANT, G.)
 HAYNES, R.J. (see HELLEKANT, G.)
 HEDENBRO, J. (see EKLUND, M.)
 HEDIN, L. Comparison between the steroidogenic responses after pulsatile and continuous administration of gonadotrophin releasing hormone to superfused rat follicles, 269
 HEDLUND, H. & ANDERSSON, K.-E. Effects of some peptides on isolated human penile erectile tissue and cavernous artery, 413
 HEDLUND, H., FASTH, S., HULTEN, L. & NORDGREN, S. Studies on the integrated extrinsic nervous control of rectal motility in the cat, 43
 HEIKKILÄ, R., IVERSEN, J.-G. & GODAL, T. No correlation between membrane potential and increased cytosolic free Ca²⁺ concentration, ⁸⁶Rb⁺ influx or subsequent [³H]thymidine incorporation in neoplastic human B cells stimulated with antibodies to surface immunoglobulin, 107
 HEIKKILÄ, R., IVERSEN, J.-G., SMELAND, E. & GODAL, T. Intracellular Ca²⁺ buffering potentiates an ⁸⁶Rb⁺ permeability response in human lymphocytes, 247
 HELLEKANT, G., HÅRD A.F. SEGERSTAD, C., ROBERTS, T.,

- VAN DER WEL, H., BROUWER, J.N., GLASER, D., HAYNES, R.J. & EICHBERG, J.W. Effects of gymnemic acid on the chorda tympani proper nerve responses to sweet, sour, salty and bitter taste stimuli in the chimpanzee, 399
- HELLSTRÖM, P.M. Atropine and naloxone block the colonic contraction elicited by cholecystokinin and pentagastrin, 25
- HELLSTRÖM, P.M., OLERUP, O. & TATEMOTO, K. Neuropeptide Y may mediate effects of sympathetic nerve stimulations on colonic motility and blood flow in the cat, 613
- HJEMDAHL, P. (see KAHAN, T.)
- HÖKFELT, T. (see MEISTER, B.)
- HOLDAAS, H. (see VIKSE, A.)
- HOLMIN, T. (see EKELUND, M.)
- HOLTER, P.H. & REFSUM, H.E. Erythrocyte 2,3-diphosphoglycerate and erythropoietic activity in rabbits with severe bleeding anaemia superimposed on the early post-natal fall in haemoglobin, 543
- HUA, X. (see THEODORSSON-NORHEIM, E.)
- HUANG, Y.-Y. (see WIGSTRÖM, H.)
- HULTBORN, R., KJELLSTRÖM, B.T. & RISBERG, B. A spectrophotometric method for measuring oxygen consumption in monolayers of cultured endothelial cells, 5
- HULTÉN, L. (see HEDLUND, H.)
- ISAKSSON, O. (see GAUSE, I.)
- IVERSEN, J.-G. (see HEIKKILÄ, R.)
- JANBU, T., KOSS, K.S., NESHEIM, B.-I. & WESCHE, J. Blood velocities in the uterine artery in humans during labour, 153
- JANSEN, I. (see FREDHOLM, B.B.)
- JANSSON, L. Dissociation between pancreatic islet blood flow and insulin release in the rat, 223
- JEPPESEN, C. (see THORN, N.A.)
- JOHANSSON, B.R. (see HARALDSSON, B.)
- JOHANSSON, H. (see WALLFELT, C.)
- JÖNSEN, C. (see FANDRIKS, L.)
- JUNG, H. (see SCHOENBERG, M.H.)
- KAHAN, T., DAHLÖF, C. & HJEMDAHL, P. Influence of acetylcholine, peptides, and other vasodilators on endogenous noradrenaline overflow and vasoconstriction in canine blood perfused gracilis muscle, 457
- KAO, F.F. (see BUDZIŃSKA, K.)
- KHAN, A.R. & BENGTSOON, B. Fatigue in frog skeletal muscle fibres and effects of methylxanthine derivatives, 35
- KHAN, A., LÖW, H. & EFENDIĆ, S. Effects of fasting and refeeding on the activity of hepatic glucose-6-phosphatase in rats, 591
- KHAN, A.R. (see BENGTSOON, B.)
- KIIL, F. (see VIKSE, A.)
- KJELLSTRÖM, B.T. (see HULTBORN, R.)
- KOSS, K.S. (see JANBU, T.)
- KUNAVONGKRIT, A. (see UVNÄS-MOBERG, K.)
- KVIST, U. & BJÖRNDALH, L. Zinc preserves an inherent capacity for human sperm chromatin decondensation, 195
- KVIST, U. (see BJÖRNDALH, L.)
- LAGERCRANTZ, H. (see LARSEN, T.S.)
- LAGERCRANTZ, H. (see YAMAMOTO, Y.)
- LAMBERT, J.D.C. (see FLATMAN, J.A.)
- LÄNGSTRÖM, M. (see FUGL-MEYER, A.R.)
- LARSEN, T.S., LAGERCRANTZ, H., RIEMERSMA, R.A. & BLIX, A.S. Seasonal changes in blood lipids, adrenaline, noradrenaline, glucose and insulin in Norwegian reindeer, 53
- LARSEN, T.S., NILSSON, N.Ö. & BLIX, A.S. Effects of prolonged food restriction in some aspects of lipid metabolism in Norwegian and Svalbard reindeer, 173
- LARSSON, R. (see WALLFELT, C.)
- LESZNIOWSKI, W. (see ENTREI, C.)
- LEWIS, D.H. (see EINTREI, C.)
- LI, Y.-O. & FREDHOLM, B.B. Adenosine analogues stimulate cyclic AMP formation in rabbit cerebral microvessels via adenosine A₂-receptors, 253
- LILJEBORG, A. (see ASKMARK, H.)
- LINDÉN, A. (see UVNÄS-MOBERG, K.)
- LJUNGHALL, S. (see WALLFELT, C.)
- LÖW, H. (see KHAN, A.)
- LUHTANEN, P. (see VIITASALO, J.T.)
- LUNDBERG, J.M., SARIA, A., FRANCO-CEREDA, A. & THEODORSSON-NORHEIM, E. Mechanisms underlying changes in the contents of neuropeptide Y in cardiovascular nerves and adrenal gland induced by sympatholytic drugs, 603
- LUNDBERG, J.M. (see FRANCO-CEREDA, A.)
- LUNDBERG, J.M. (see THEODORSSON-NORHEIM, E.)
- LUNDQUIST, I. (see ÅHRÉN, B.)
- LÜTJEN-DRECOLL, E., EICHORN, M. & BÁRÁNY, E.H. Carbonic anhydrase in epithelia and fenestrated juxtaepithelial capillaries of *Macaca fascicularis*, 295
- MAIGAARD, S., FORMAN, A. & ANDERSSON, K.-E. Differences in contractile activation between human myometrium and intramyometrial arteries, 371
- MAIGAARD, S. (see FORMAN, A.)
- MALMQVIST, U. (see ARNER, A.)
- MÄRDH, S. (see VEGA, F.V.)
- MARTIRE, M. (see AGNATI, L.F.)
- MASCAGNI, F. (see ANDERSSON, K.)
- MATHISEN, Ø. (see GROTMOL, T.)
- MEISTER, B., HÖKFELT, T., VALE, W.W. & GOLDSTEIN, M. Growth hormone releasing factor (GRF) and dopamine coexist in hypothalamic arcuate neurons, 133
- NESHEIM, B.-I. (see JANBU, T.)
- NIELSEN, F.S. (see THORN, N.A.)

- NIELSEN, R. Ba^{2+} -induced changes in the Na^{+} - and K^{+} -permeability of the isolated frog skin, 61
- NILSSON, N.Ö. (see LARSEN, T.S.)
- NORDGREN, S. (see HEDLUND, H.)
- NORRSELL, U. (see DANIELSSON, I.)
- ÖDMAN, S. (see EINTREI, C.)
- OLAISSE, H. (see VEGA, F.V.)
- OLERUP, O. (see HELLSTRÖM, P.M.)
- OLSSON, K. & DAHLBORN, K. Effects of a synthetic vasopressin analogue (desmopressin) in pregnant, lactating and anaesthetized goats, 597
- OSCARSON, J. (see EKELOUND, M.)
- OWMAN, CH. (see STJERNQUIST, M.)
- PANTALEO, T. (see BUDZIŃSKA, K.)
- PICCININI, G. (see AGNATI, L.F.)
- RÆDER, M.G. (see GROTMOL, T.)
- RAHKILA, P. (see VIITASALO, J.T.)
- RASTAD, J. (see WALLFELT, C.)
- REFSUM, H.E. (see HOLTER, P.H.)
- REHFELD, J.F. (see EKELOUND, M.)
- RIDDERSTRÅLE, Y. & HANSON, M. Histochemical study of the distribution of carbonic anhydrase in the cat brain, 557
- RIEMERSMA, R.A. (see LARSEN, T.S.)
- RISBERG, B. (see HULTBORN, R.)
- ROBERTS, T. (see HELLEKANT, G.)
- ROOMANS, G.M. & WEI, X. X-ray microanalysis of resting and stimulated rat pancreas, 353
- ROSENGREN, E. (see UVELIUS, B.)
- RUGGERI, M. (see AGNATI, L.F.)
- RUSKO, H. (see VIITASALO, J.T.)
- SAGULIN, G.-B., TØRRING, O., SJÖBERG, H.E., ARVER, S. & APPELGREN, B. Effects of a three-hour calcium clamp on calcium, phosphate, magnesium and zinc concentrations of human parotid saliva, 1
- Saria, A. (see LUNDBERG, J.M.)
- SCHILDBERG, F.W. (see SCHOENBERG, M.H.)
- SCHISTAD, O. (see GROTMOL, T.)
- SCHOENBERG, M.H., FREDHOLM, B.B., HAGLUND, U., JUNG, H., SELLIN, D., YOUNES, M. & SCHILDBERG, F.W. Studies on the oxygen radical mechanism involved in the small intestinal reperfusion damage, 581
- SCHWARZ, J.R. (see BRISMAR, T.)
- SEJERSTED, O.M. (see GROTMOL, T.)
- SEJERSTED, O.M. (see VIKSE, A.)
- SELLIN, D. (see SCHOENBERG, M.H.)
- SJÖBERG, H.E. (see SAGULIN, G.-B.)
- SJÖDIN, L. Cholecystokinin inhibits binding of substance P to pancreatic acinar cells, 471
- SJÖQUIST, M. (see GÖRANSSON, A.)
- SMELAND, E. (see HEIKKILÄ, R.)
- SMITH, U. (see GAUSE, I.)
- STJERNQUIST, M. & OWMAN, CH. Cholinergic and adrenergic neural control of smooth muscle function in the non-pregnant rat uterine cervix, 429
- STOCK, S. (see UVNÄS-MOBERG, K.)
- SUNDLER, F. (see EKELOUND, M.)
- TATEMOTO, K. (see HELLSTRÖM, P.M.)
- THEODORSSON-NORHEIM, E., HUA, X., BRODIN, E. & LUNDBERG, J.M. Capsaicin treatment decreases tissue levels of neurokinin A-like immunoreactivity in the guinea pig, 129
- THEODORSSON-NORHEIM, E. (see LUNDBERG, J.M.)
- THORN, N.A., CHRISTENSEN, B.L., JEPPESEN, C. & NIELSEN, F.S. Ascorbic acid uptake to isolated nerve terminals and secretory granules from ox neurohypophyses, 87
- TOFFANO, G. (see AGNATI, L.F.)
- TØRRING, O. (see SAGULIN, G.-B.)
- ULMSTEN, U. (see FORMAN, A.)
- UVELIUS, B. & ROSENGREN, E. Renal polyamine metabolism in rats with renovascular hypertension, 11
- UVELIUS, B. (see ARNER, A.)
- UVNÄS-MOBERG, K., STOCK, S., ERIKSSON, M., LINDÉN, A., EINARSSON, S. & KUNAVONGKRIT, A. Plasma levels of oxytocin increase in response to suckling and feeding in dogs and sows, 391
- VAKKURI, O. Diurnal rhythm of melatonin in human saliva, 409
- VALE, W.W. (see MEISTER, B.)
- VAN DER WEL, H. (see HELLEKANT, G.)
- VEGA, F.V., OLAISSE, H. & MÄRDH, S. Distribution of carbonic anhydrase in cells and membranes isolated from pig gastric mucosa, Paper 137
- VIITASALO, J.T., LUHTANEN, P., RAHKILA, P. & RUSKO, H. Electromyographic activity related to aerobic and anaerobic threshold in ergometer bicycling, 287
- VIKSE, A., HOLDAAS, H., SEJERSTED, O.M. & KIIL, F. Haemodynamic conditions for renal PGE_2 and renin release during α - and β -adrenergic stimulation in dogs, 163
- WALLFELT, C., LARSSON, R., JOHANSSON, H., RASTAD, J., ÅKERSTRÖM, G., LJUNGHALL, S. & GYLFE, E. Stimulus-secretion coupling of parathyroid hormone release: studies of ^{45}Ca and ^{86}Rb fluxes, 239
- WEI, X. (see ROOMANS, G.M.)
- WEIBER, R. (see BENGTTSSON, B.)
- WESCHE, J. (see JANBU, T.)
- WESTRIN, P. (see EKELOUND, M.)
- WIGSTRÖM, H., GUSTAFSSON, B. & HUANG, Y.-Y. A synaptic potential following single volleys in the hippocampal CA1 region possibly involved in the induction of long-lasting potentiation, 475

YAMAMOTO, Y. & LAGERCRANTZ, H. Some effects of substance P on central respiratory control in rabbit pups, 449

YAMAMOTO, Y. (*see* BUDZIŃSKA, K.)

YOUNES, M. (*see* SCHOENBERG, M.H.)

ZINI, I. (*see* AGNATA, L.F.)

ZOLI, M. (*see* AGNATI, L.F.)

Subject index

- Abnormal fertilization, 189
- Accelerometer, 149
- Acetazolamide, 573
- Acid secretion, 437
- Acrylamide, 117
- ACTH, 277
- Adenosine receptors, 253
- Adipocytes, 173, 229
- Adrenaline, 53
- Adrenergic nerves, 429
- Adrenergic receptors, 381
- β -adrenoceptor agonists, 149
- Aged spermatozoa, 189
- Albumin clearance, 99
- Alimentary tract, 295
- Allopurinol, 581
- Alpha-receptors, 603
- Amine turnover, 277
- Amylase secretion, 535
- Anaemia, 543
- Anaerobic threshold, 287
- Anoestrus, 597
- Ape, 399
- Apneustic pattern of breathing, 317
- Apnoea, 329
- Arctic, 53, 173
- Arterial hypertension, 11
- Ascorbic acid uptake, 87
- Atropine, 457
- Augmented secretion, 535
- Autonomic innervation, 429
- Autoradiography, 117
- Autoregulation, 163, 515
- Axon reflex, 565

- B lymphocyte activation, 107, 247
- Back diffusion, 181
- Barium, 61
- Biological adaptation, 507
- Blood flow, 613
- Blood velocities, 153
- Böttinger complex, 329
- Brown adipose tissue, 81
- ^3H - α -bungarotoxin, 117

- Ca^{2+} , 525
- ^{45}Ca transport, 239
- Calcium, 93, 353, 361
- Calcium channels, 239
- Calcium flux, 381
- Calcium infusion, 1
- Capillaries, 253

- Capillary filtration capacity, 99
- Carbonic anhydrase, 295, 557, 573
- Cat brain, 557
- Catecholamines, 81
- Cavernous artery, 413
- Cell culture, 5
- Central chemosensitivity, 329
- Central nervous system, 253
- Chemical skinning, 525
- Cholecystokinin, 25
- Cholesterol, 53
- Cholinergic nerves, 429
- Chorda tympani, 399
- Chromatin decondensation, 189
- Cigarette smoke, 277
- Colon, Paper 613
- Colonic motility, 25, 565
- Compartment model, 261
- Contractile properties, 549
- Contraction, 17
- Control of respiration, 317, 329
- Converting enzyme inhibition, 515
- Core temperature, 81
- Coronary vasodilation, 181
- Corpus cavernosum, 413
- Corticosterone, 277
- Cyclic AMP, 253

- DA, 277, 499
- Denervation, 177, 549
- Depolarization, 239
- DES, 93
- Desmopressin, 597
- Developing rat, 483
- 2,3-Diphosphoglycerate, 543
- Disulphide cross-links, 189
- Diurnal rhythm, 409
- Dog, 81
- Dorsal Respiratory Group, 317

- EGTA, 93
- Ejaculated human spermatozoa, 189
- Electromyography, 189, 213
- EMG integral, 287
- EMG mean power frequency, 287
- Endocrine cells, 437, 483
- Endocrine glands, 295
- Endothelium, 5
- Endurance, 213
- Ergometer bicycling, 287
- Excitatory amino acids, 421
- Exocytosis, 239

- Expiration-related units, 341
- Expiratory muscles, 341
- Explosive power, 501
- Fasting, 591
- Fatigue, 35, 213, 549
- Feeding and suckling, 391
- Felodipine, 457
- Fenestrated and unfenestrated capillaries, 295
- Focal cold block of the medulla, 317, 329, 341
- Force-velocity, 549
- Force-velocity curve, 507
- Force-velocity relation, 525
- Forskolin, 253
- Free fatty acids, 53, 173
- Frog skin, 61
- FSH, 277
- Gangliosides, 499
- Gastric secretion, 483
- Glucose, 53, 173, 223
- Glucose metabolism, 229
- Glucose-6-phosphatase, 591
- Glycerol, 53, 173
- Gonadotrophin releasing hormone, 269
- Grey matter, 261
- Growth hormone, 229
- Growth hormone binding, 229
- Guanethidine, 603
- Gymnemic acid, 399
- Haemoglobin, 543
- Haemoglobin O₂ dissociation, 543
- Heart, 361, 603
- Hering-Breuer reflexes, 317
- Histamine, 437
- Histidine decarboxylase, 437
- Histochemistry, 557
- H, K-ATPase, 573
- Human, 189, 213
- Human corpus spongiosum, 413
- Human oviductal smooth muscle, 17
- Human spermatozoa, 189
- Hypercalcaemia, 1
- Hypergravity conditioning, 507
- Hypertrophy, 525
- Hypophysectomy, 229
- Hypothalamus, 277
- Hypoxia, 449
- Indomethacin, 163
- Innervated beta-adrenoceptors, 43
- Inosine, 581
- Insulin, 53, 173
- Insulin secretion, 381
- Ion fluxes, 107, 247
- Ion permeability, 247
- Ion transport, 353
- Ischaemia, 261
- Islet blood flow, 223
- Isokinetic, 189, 213
- Isoproterenol, 163
- K⁺-permeability, 61
- Kidney, 515
- Labour, 153
- Lactation, 597
- LH, 277
- Lipid peroxidation, 581
- Lipogenesis, 173
- Lipolysis, 173
- Local temperature, 181
- Magnesium, 1
- Mammalian nerve, 141
- Mannoheptulose, 223
- Medulla oblongata, 557
- Melatonin, 409
- Membrane potential, 107
- Muscle, 117
- Methylxanthines, 35
- Microspheres, 81, 223
- Monolayer, 5
- Motility, 613
- Mucosal damage, 581
- Mucous membranes, 295
- Muscle fibre, 35
- Muscle mechanics, 507
- Myelinated nerve, 141
- Myocardial capillary permeability-surface area product, 181
- Myocardial plasma flow, 181
- N. paragigantocellularis lateralis, 329
- NA, 277
- NaHCO₃ secretion, 71
- Na,K-ATPase, 71
- Na⁺-permeability, 61
- Neonatal, 449
- Nephron heterogeneity, 515
- Nerve cells, 499
- Neural control of expiratory activity, 341
- Neurohypophysis, 87
- Neuropeptide Y, 361
- Neurosecretory granules, 87
- Neurosecretosomes, 87
- Nicotine, 277
- Nifedipine, 361
- Nitroglycerin, 457
- Non-esterified fatty acids, 81
- Noradrenaline, 53, 361, 603
- NPY, 613
- Nucleotide levels, 581

- Off-switch mechanism, 317
 Ornithine decarboxylase activity, 11
 Oviductal arteries, 17
 Oxotremorine, 149
 Oxygen radicals, 581
- Pancreas, 71, 353
 Pancreatic blood flow, 223
 Pancreatic islets, 223
 Parasympathetic nerves, 43
 Parasympathetic stimulation, 535
 Parathyroid cell, 239
 Parietal cells, 483, 535
 Penile erection, 413
 Pentagastrin, 25
 Peptides, 413
 Perfusion fixation, 99
 Perirenal fat, 81
 Permselectivity, 99
 Pharmacological blockades, 25
 Phenylephrine, 163
 Phosphate, 1
 Plantar flexion, 189, 213
 Plasma levels of oxytocin, 391
 Polyamines, 11
 Portacaval shunt, 437
 Potassium permeability, 141
 Pre- and post-junctional receptors, 429
 Pregnancy, 597
 Preovulatory follicles, 269
 Prejunctional receptors, 457
 Prolactin, 277
 Prostaglandin E₂ release, 163
 Proton pump, 71
 PTH Secretion, 239
 Putrescine, 499
- Rabbits, 449
 Radioimmunoassay, 409
Rangifer, 53, 173
 Rat, 5, 141, 149, 515
 Rat islets, 381
 Rat parotid, 535
 Rat portal vein, 525
 Rat stomach, 437
⁸⁶Rb transport, 239
 Rectal motility, 43
 Refeeding, 591
 Regional blood flow, 81
 Regional cerebral blood flow, 261
 Reindeer, 53
 Relaxation, 17
 Renal artery stenosis, 11
 Renin-angiotensin system, 515
 Renin release, 163
 Reserpine, 603
 Respiratory control, 449
 Respiratory drive, 329
- Respiratory smooth muscle, 93
 Respiratory system, 295
 Respiratory tract, 295
 Respirometry, 5
 Rhythmic and tonic 'expiratory release', 341
- Saliva, 409
 Salivary calcium, 1
 SCN⁻, 573
 Secretin, 71
 Secretion, 353
 Single nephron glomerular filtrate rate, 515
 Skeletal muscle, 99, 213, 549
 Skeletal muscle β_2 -adrenoceptors, 149
 Skin, 295
 Small intestine, 581
 Smooth muscle, 429
 Somal and dendritic application, 421
 Spectrophotometer, 5
 Spermidine, 499
 Spermine, 499
 Spinal motoneurons, 421
 Spleen, 603
 Starvation, 223
 Steroidogenesis, 269
 Stomach, 483
 Striatum, 499
 Substance P, 17, 449, 457, 565
 Superfusion, 269
 Sweet, 399
 Sympathetic nerves, 43, 565
 Sympathetic nerve stimulation, 613
 Sympathetic neurotransmission, 457
- Taste, 399
 Thermogenesis, 81
 Thiol, 189
 Tissue concentration, 17
 Transcapillary exchange, 99
 Transporting epithelia, 295
 Tremor, 149
 Triacylglycerols, 53
 TSH, 277
- Ultrasound, 153
 Urea, 173
 Urogenital system, 295
 Uterine artery, 153
 Uterine cervix, 429
- Validation, 409
 Vascular smooth muscle, 525
 Vasoactive intestinal polypeptide, 457
 Vasodilation, 457
 Vasopressin, 277, 597
 Ventral respiratory group, 317, 329
 Voltage clamp, 141

Water balance, 597
Water intake, 597
White matter, 261
Work, 189, 213

¹³³Xenon, 261
X-ray microanalysis, 353
Zinc, 1, 189